

Title (en)

CONTROL METHOD FOR A GAS BOILER

Title (de)

STEUERVERFAHREN FÜR EINEN GASHEIZKESSEL

Title (fr)

MÉCANISME DE COMMANDE POUR CHAUDIÈRE À GAZ

Publication

EP 4306849 A1 20240117 (EN)

Application

EP 22185089 A 20220715

Priority

EP 22185089 A 20220715

Abstract (en)

Method (100) for controlling the ignition of a burner (5) in a combustion appliance (1), in particular a gas boiler, wherein the combustion appliance (1) is operable in an ignition phase (IP) and in an operation phase (OP) after the burner (5) has ignited, the method (100) comprising providing (S101) a mixture of air and fuel gas to the combustion appliance (1), controlling (S102) one or more actuators (2, 3) of the combustion appliance (1) to regulate the air flow and/or the fuel gas flow, and defining (S103) a lambda value during the operation of the combustion appliance (1), the lambda value being an air to fuel gas ratio of the mixture, wherein the lambda value at the ignition phase (IP) is below than 1.8, in particular it is between 1.5 and 1.7.

IPC 8 full level

F23D 14/02 (2006.01); **F23N 5/00** (2006.01)

CPC (source: EP)

F23D 14/02 (2013.01); **F23N 5/00** (2013.01); **F23C 2900/9901** (2013.01); **F23N 2227/02** (2020.01); **F23N 2227/04** (2020.01)

Citation (search report)

- [XYI] DE 10256318 A1 20040617 - BOSCH GMBH ROBERT [DE]
- [XI] US 2022074591 A1 20220310 - TAKEUCHI MASARU [JP]
- [A] EP 1672280 A1 20060621 - KROMSCHROEDER AG G [DE]
- [Y] US 2022163203 A1 20220526 - TEN HOEVE DIRK [NL], et al

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

EP 4306849 A1 20240117; WO 2024012838 A1 20240118

DOCDB simple family (application)

EP 22185089 A 20220715; EP 2023066928 W 20230622